

## 12-8117: Anti-Respiratory Syncytial Virus (Clone: RSV-14N4)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RSV-14N4
<b>Application :</b>	ELISA
<b>Alternative Name :</b>	RSV, Orthopneumovirus,
<b>Isotype :</b>	Human IgG1 <sup>®</sup>
<b>Immunogen Information :</b>	Human donors targeting the postfusion RSV F protein using human hybridoma technology

### Description

**Reactivity Species :** Respiratory Syncytial-Virus

**Expression Host :** HEK-293

**Endotoxin Level :** ≤ 1.0 EU/mg as determined by the LAL method

**Specificity :** RSV-14N4 activity is directed against antigenic site II of the RSV fusion (F) protein. RSV-14N4 readily competes with clone RSV-12I1 on post-fusion F, but the competition is less pronounced on prefusion F.

A plaque reduction neutralization assay showed RSV-14N4 is capable of neutralizing RSV strain A2. By ELISA RSV-14N4 binds to both prefusion and post-fusion F proteins with equal affinity. Competition-binding studies showed that RSV-14N4 targets antigenic site II, which is the target of palivizumab, an antiviral monoclonal antibody used as a prophylactic treatment. Saturation alanine scanning mutagenesis identified residues Asp263, Ile266, Asp269, and Lys271 as critical for 14N4 binding. Binding to antigenic site II was confirmed by x-ray crystallography and electron microscopy as well as by binding to scaffolded epitopes containing site II.

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	≥95% monomer by analytical SEC
<b>Content :</b>	≥5.0 mg/ml. This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.
<b>Storage condition :</b>	Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one year. For longer term storage, aseptically aliquot in working volumes without diluting and store at -70°C. Avoid Repeated Freeze Thaw Cycles.